### **ENVIRONMENTAL CHEMISTS**

Date of Report: 10/11/99 Date Received: 10/07/99

Project: Metro-Self Monitor, PO# M62766

Date Extracted: 10/08/99 Date Analyzed: 10/08/99

# RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

# Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID		Chromium	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M62766		0.23	0.30	0.27	< 0.05
Method Bla	nk	< 0.05	< 0.05	< 0.05	< 0.05

### **ENVIRONMENTAL CHEMISTS**

Date of Report: 10/11/99 Date Received: 10/07/99

Project: Metro-Self Monitor, PO# M62766

# QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 909136-01 (Duplicate)

				Relative		
	Reporting	Sample	Duplicate	e Percent	Acceptan	ce -
Analyte	Units	Result	Result	Difference	Criteria	ì
Chromium	ug/L (ppb)	0.27	0.26	4	0-20	
Copper	ug/L (ppb)	0.36	0.33	9	0-20	
Nickel	ug/L (ppb)	0.31	0.32	3	0-20	
Zinc	ug/L (ppb)	0.15	0.09	50 a	0-20	

Laboratory Code: 909136-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recover	y % Recovery	Acceptanc	e
Analyte	Units	Level	Result	MS	MSD	Criteria	RPD
Chromium	ug/L (ppb)	5	5.5	106	102	80-120	4
Copper	ug/L (ppb)	5	5.5	102	99	80-120	3
Nickel	ug/L (ppb)	10	114	110	119	80-120	9
Zinc	ug/L (ppb)	5	6.6	129 vo	137 vo	80-120	6

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ry % Recov	ery Acceptanc	e	
Analyte	Units	Level	LCS	LCSD	Criteria	RPD	
Chromium	ug/L (ppb)	5	109	109	80-120	0	N THE
Copper	ug/L (ppb)	5	108	108	80-120	0	
Nickel	ug/L (ppb)	10	115	116	80-120	1	
Zinc	ug/L (ppb)	5	117	120	80-120	3	

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

vo - The value reported fell outside the control limits established for this analyte.

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

October 11, 1999

#### DUPLICATE COPY

### **INVOICE #99ACU1011-2**

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro-Self Monitor, PO# M62766: Results of testing requested by Gerald Thompson for material submitted on October 7, 1999.

1 water sample analyzed for Chromium, Copper, Nickel, and Zinc using Method 6010 @ \$80 per sample \$80.00

Amount Due \$80.00

PLEASE NOTE: As a convenience for our valued clients, we can accept credit cards (VISA, MasterCard or government purchasing cards) for payment on our invoices. Please contact our office if you would like to take advantage of this service.

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

(DH 10/7/99 AI,

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# SAMPLE CHAIN OF CUSTODY

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Company A Askov Coppen Works Contact Glesco A. Thompson  Address 128 Howfund 50								
City, State, Zip Sea-		28034						
Phone # 206- 782-	A375	FAX #_	706-3	382-4708		Date \ 10/7/25		
SITE NO. PROJECT NAME PURCHASE ORDER #								
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	rentals					Dispose after 30 day Return Samples Call for Instructions		
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09/09/99

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

October 11, 1999

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 7, 1999 from your Metro-Self Monitor, PO# M62766 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Dianne Chist

Dianne C. Hurt Project Manager

Enclosures ACU1011R.DOC